

Title (en)  
Combined device for discharging liquid and cleaning apparatus thereof

Title (de)  
Kombinierte Vorrichtung zum Abziehen von Flüssigkeit und Reinigungsgerät dafür

Title (fr)  
Dispositif mixte de soutirage d'un liquide et dispositif de nettoyage associe

Publication  
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Application  
**EP 92450016 A 19921112**

Priority  
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Abstract (en)  
[origin: EP0597161A1] Hybrid device for drawing off a liquid of the type with a slight pressure or slight partial vacuum, particularly applied to the operation of bottling wine comprising at least one buffer reservoir (10) for this liquid, a dispensing head (12) equipped with a moving shutter (62) and designed to receive the neck of a bottle at its lower end, a canula (hollow needle) (30) for the return of air and relevelling mounted in the buffer reservoir, driven in terms of translation by a cam on the outside of this buffer reservoir and also mounted slidably in leaktight fashion through this dispensing head, characterised in that it comprises a circuit (16) for injecting a neutral gas at a slight pressure, a circuit (20) with a slight partial vacuum, and a venting circuit (18). The subject of the invention is also the associated cleaning device. <IMAGE>

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Cited by  
FR2842799A1; CN109368574A; FR2730983A1; FR2879583A1; EP1577258A1; EP0960852A3; CN107555389A; EP0752388A1; CN103588157A; FR2761973A1; ITAR20110023A1; CN105752915A; FR2841232A1; CN104944343A; AU730267B2; EP0780338A1; US5819817A; EP1262448A1; WO9903774A1; WO9911559A1

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